Work Order ID 83087 Page 1 April-12-12 4:11:58 PM Item ID: D212-664-201 Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Aft **Start Date:** 12/04/2012 Start Qty: 1.00 **Cust Item ID: Required Date:** 26/04/2012 Req'd Qty: 1.00 **Customer:** Reference: Run Date: 12/04 Process Plan: MLJ 13 Tooling: Approvals: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool # Plan Reject Accept **Work Center ID** Description Run Hous Code Qty Qty Number Stamp **Draw Nbr Revision Nbr** D212-664-241 Rev D (DEO) DS19563 100 DOCUMENT CONTROL *100* Memo . , Document Control Photocopy bluefile and create labels CHG005

110

Pick Kit

110

Packaging

0.00

Packaging

Memo

Packaging

0.00

MO 12-6-26

w/o: 83	3087		W	ORK ORDER CHANGES					
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Part No:	Dai	2-664-20 PAR #:	Fault Cat	\wedge	R: Yes	No DQA	Shut M	Date: /	2/08/13
	R	lesolution:	•	1	A: N/C CI	/-	D	Date:	408/14.
NCR: 12	-1683.		WORK ORI	DER NON-CONFORMANC	E (NCF	⁸⁾ \$Z	916	, []	
DATE	STEP	Description of NC Section A	Initial Chief Bhg	Corrective Action Section B Action Description Chief Eng	Sign &	Verific	ation	Approval Chief Eng	Approval QC Inspecto
12/4/27	120	Bent too high & narrow. R.C. BEND PROCESS	40.16	SCENE POLI	12-6-1	12°6	38	12/06/2	12/06/28
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Page 2

April-12-12 4:11:58 PM

Item ID: - Revision ID: Item Name:	D212-664-20 Crosstube Aft			Accept	*N900	040	100)*	Setup Sta	IV	IS1*
Start Date: Required Date: Reference:	12/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item Customer:	ID:					IS2*
Approvals:	Process Pla QC:	n:	Date:	Tooling: SPC (Y/N):		ate:				on	IR1* IR2*
Sequence ID/ Work Center II 120)	Operation Description BENDING MACHINE -	CROSSTUBES	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 CNC Bend 2 CNC Alpha 160 Ber	der	Memo		0.00 241 using CNC bender program 2	212-						
*130		QC15- Crosstube Dimen	sional Check	0.00							
QC		Memo		0.00						<u> </u>	

Dart Aerospace L	.td
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W/O:			W	ORK ORDER CHANG	GES						
DATE	STEP	PR	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

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Part No	•	PAR #:	Fault Cate	egory:	NCR	Yes I	No DQ				
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DATE	STEP	Description of NC Section A	Corrective Action Initial Action Descri		ction B	Sign &	Verific Secti		Approval Chief Eng	Approval QC Inspector	
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Page 3

April-12-12 4:11:58 PM Item ID: D212-664-201 Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Aft **Start Date:** 12/04/2012 Start Qty: 1.00 **Cust Item ID:** Reg'd Qty: 1.00 **Required Date: 26/04/2012 Customer:** Reference: Run Process Plan: **Approvals:** Date: **Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Reject Set Up/ Tool # Plan Accept Reject Insp. **Work Center ID** Description **Run Hours** Code Qty Qty Number Stamp 140 0.00 Crosstubes *140* Crosstubes 0.00 Memo Crosstubes 1-Drill pilot holes in tube as per Dwg D212-664-241 using drill Jig DT8550, DT8551, drill table DT8577 and locate tower holes #8 as per QSI0010. 2-Ream hole to finish size in tube as per Dwg D212-664-241using drill Jig DT8550 & DT8551. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes. 3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D212-664-241 150 Crosstubes Chemical Conversion 0.00 *150* HandFXtube 0.00 Memo Hand Finishing Crosstubes Chemical Conversion Coat as within 24 hours of bending and drilling

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W/O:			WC	ORK ORDER CHANG	GES						
DATE	STEP	PRO	OCEDURE CHA	NGE	1	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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NCR:			WORK ORDI	ER NON-CONFORM	ANCE ((NCR)					
DATE	STEP	Description of NC	Corrective Action		tion B	Ciam 0	Verific		Approval	Approval	
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Work Order ID 83087 Page 4 April-12-12 4:11:58 PM D212-664-201 Item ID: Accept *N900040100* Setup Start **Revision ID:** Crosstube Aft Item Name: **Start Date:** 12/04/2012 Start Otv: 1.00 **Cust Item ID: Req'd Qty:** 1.00 **Required Date:** 26/04/2012 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: Stop SPC (Y/N): QC: Date: Date: Operation Sequence ID/ Tool ID Tool # Plan Set Up/ Accept Reject Reject Work Center ID Description Code Qty Number Stamp Run Hours Qty 160 QC3-Inspect Part Finish 0.00 *160* QC 0.00 Memo Quality Control 170 QC5- Inspect part completeness to step on W/O 0.00 *170* QC 0.00 Memo Quality Control 180 Outsource process - NDT per QSI038 4.1 0.00 *180* Outsource2 0.00 Memo Outsource process - NDT Liquid Penetrant Inspection as per OSI 038 Issue P/O:

> LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order

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W/O:			WC	RK ORDER CHANGE	ES				
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DATE	SIEP		Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sec	tion C	Chief Eng	QC Inspector
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April-12-12 4:11:58 PM

Item ID:

D212-664-201

Accept

N900040100

Setup Start

Revision ID:

Item Name:

Crosstube Aft

Cust Item ID:

Start Date:

12/04/2012 **Required Date: 26/04/2012**

Start Qty: 1.00 Req'd Qty: 1.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan Accept Qty Code

Reject Qty

Reject Insp. Number Stamp

190

100

Packaging

Receive & Inspect for Damage & Mat'l Certs Packaging

QC5- Inspect part completeness to step on W/O

0.00

0.00

Packaging

Ensure copy of NDT results attached to work order.

200

Memo

0.00

Memo

0.00

Quality Control

Inspect for damage & ensure results are as per Dwg D212-664-241

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NCR:			WORK ORDI	ER NON-CONFORM	ANCE (NCR)				
DATE	STEP Description of NC Section A		Initial Action Des		tion B	ign & Date	Verific Section		Approval Chief Eng	Approval QC Inspector
				10 Th. 10 July 12 July						

220

QC14- Inspect Spray Paint

0.00

220

Memo

Finish Time:

0.00

Quality Control

Then, Wrap in plastic bag to protect from scratches

Dart Aerosp	pace Ltd
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W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	HANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No		PAR #:	Fault Ca	itegory:	NCF	R: Yes	No DQ	\ :	Date:				
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NCR:			WORK OR	DER NON-CONFORM	MANCE	(NCR))						
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Item ID: Revision ID: Item Name:	D212-664-20 Crosstube Aft			Accept	*N900				Setup Sta	rt *N	S1* S2*
Start Date: Required Date: Reference:	12/04/2012 26/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ! Customer:					I	. . 7
Approvals:		n:	Date:	Tooling:	D	ate:	·	I	Run Sta Sto	1/1	R1* R2*
Sequence ID/ Work Center II 230 *230* Crosstubes Crosstubes)	Operation Description Crosstubes Memo	nating surfaces of support a	Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
		clean the ar 2-Install sup A/R Pro	ea with 4105S wash 'n' wip ports with Proseal 890 per pseal 890 Batch: unps as per Dwg D212-664	r DSI9563 and QSI 015							
* 240 * 240 * 240 * 240 * QC Quality Control		QC5- Inspect part complete Memo	leteness to step on W/O	0.00						·	
250 *250* Packaging		Pick Kit		0.00							

Memo

Packaging

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Work Order ID 83087 Page 8 April-12-12 4:11:58 PM Item ID: D212-664-201 Accept *N900040100* Setup Start **Revision ID:** Item Name: Crosstube Aft **Start Date:** 12/04/2012 Start Otv: 1.00 **Cust Item ID: Required Date: 26/04/2012 Req'd Qty:** 1.00 **Customer:** Reference: Run Process Plan: Approvals: Date: **Tooling:** Date: QC: Date: **SPC (Y/N):** Date: Sequence ID/ Operation Tool ID Tool # Plan Set Up/ Reject Accept Reject Insp. **Work Center ID** Description Qty Qty **Run Hours** Code Number Stamp QC4- 100% Inspect kits for completeness 260 0.00 0.00 Memo Quality Control 270 0.00 Packaging *970* Packaging 0.00 Memo Packaging Identify and pack for shipping as per PPP D212-664-201 280 QC21- Final Inspection - Work Order Release 0.00

0.00

Memo

Quality Control

R12-08-10

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W/O:			W	ORK ORDER CHANG	GES					
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April-12-12 4:12:01 PM

Work Order ID: 83087

83087

Parent Item:

D212-664-201

D212-664-201

Parent Item Name: Crosstube Aft

Start Date: 12/04/2012

Required Date: 26/04/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:E04.02.16ReformatK/DS

IPP Rev:F 06-03-29

Remove Coments on Pick List JLM

IPP Rev:G 07-04-30

As per Rev C JLM

IPP Rev:H 08-05-22 up date Qty of rubber cushion DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty pe	r Kit	Total Qty	Qty Issued	Date Status Issued
D212-664- 201TRNRevC		Manufactured	No	S/	3095	110	Each	0.0000	1	(MO	12-6-26
*D212-664 Crosstube Turning Detail	1-201TF	RNRevC	` *	8	30 13				**				
D3595-063-530		Manufactured	No			230	Each	111.0000	2		2		
D3595-06	33-530								**				
				Location		Loc	<u>Qty</u>	Loc Code					
				LG			72					-	
					79932		72			_			
				MAT052			39			-		_	
					63407		6					_	
					67185		6					_	
					70067		18					_	
•					72745		2			_		_	
D2040 1					75783		7			_		-	
D2940-1		Manufactured	No			230	Each	19.0000	2		2		
D2940-1	•								**				
				Location		Loc	Qty	Loc Code					
				LG052			19			_		_	

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Part No	•	PAR #:	Fault Cate	egory:	_ NCR: \	∕es N	lo DQ /	A:	Date:	
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		Description of NC		Corrective Action Secti			Verific	ation	Approval	Approval
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Picklist Print April-12-12 4:12:01 PM									Page 2
Work Order ID: 83087		*8	3087*	•	- *				·
Parent Item: D212-664-201 Parent Item Name: Crosstube Aft			212-664-2	01 *			tart Date: 1		Required Date: 26/04/2012
M621020 20							Start Qty: 1	.00	Required Qty: 1.00
MS21920-28 *MS21920-28* Clamp(per MIL-DTL-8783C)	Purchased	No		230	Each	79.0000	4 **	4	
			Location	L	oc Qty	Loc Code			
			FG		5				
			105884		5				_
			LG050		74			-	_
			116839 118713		2 4				_
			120054		2				_
			120884		16				_
3428-1	Manufastuud	No	121067	250	50	21.0000			_
D3428-1	Manufactured	No		250	Each	31.0000	**	1	
			Location	L	oc Qty	Loc Code			
			ST042	_	31	 			
			78933		14				_
400104016			81881		17				_
1S21042L6	Purchased	No		250	Each	790.0000	6	6	
MS21042L6							**		
			Location	<u>L</u>	oc Qty	Loc Code			
			ST300		790				
			117677		25				_
			118384		3				_
			118927 119075		48 514				_
			120308		200				_
N960JD616 NAS1149D0663J	Purchased	No		250	Each	0.0000	18	18	
AN960.ID616							**		
April-12-12 4:12:01 PM			Shop Pac	cket Print					Page 2

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Picklist Print April-12-12 4:12:01 PM *83087* Work Order ID: 83087 *D212-664-201* Parent Item: D212-664-201 Parent Item Name: Crosstube Aft **Start Date:** 12/04/2012 **Required Date: 26/04/2012** Start Qty: 1.00 Required Qty: 1.00 AN6-40A Purchased No 250 97.0000 Each 4 *AN6-40A* ** Location Loc Oty Loc Code ST342 97 120187 68 120833 4 121349 25 AN6-41A

AN6-41A

Purchased

No

Bolt

<u>Location</u>	Loc Qty	Loc Code	
ST342	59		
119749	8		
120187	1		
120423	50		

Each

59.0000

**

250

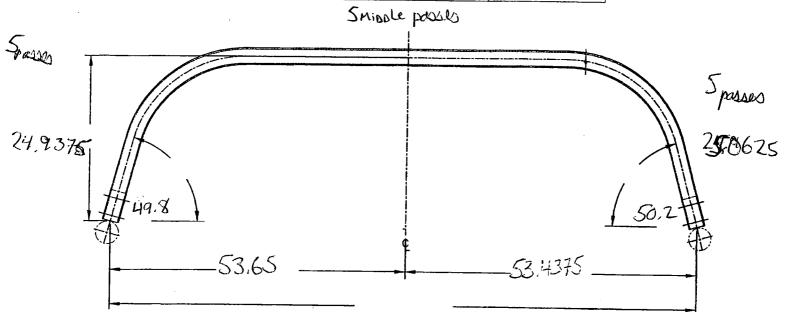
Page 3

W/O:			N	ORK ORDER CHAN	GES					
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Se Action Description Chief Eng	ection B	Sign & Date	Verific Section		Approval Chief Eng	Approval QC Inspector
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DART AEROSPACE LTD	Work Order:	83087
Description: Crosstube High Aft (205/212)	Part Number:	D212-664-201
Inspection Dwg: D212-664-241 Rev: D		Page 1 of 1

Required Dimension	Min	Max
Height	24.17	24.43
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.70



	Comments	
 		

QC15 Inspection	
Date	

Rev	Date	Change	Revised by A	pproved
Α	07.02.06	New Issue	KJ/JM	ppiorea
В	07.05.08	Dimensions updated per Dwg rev. C	KJ/JLM . a	
С	10.04.01	Dwg Rev updated	KJ KJ	1

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W/O:		WORK ORDER CHANGES										
DATE	STEP	PROCEDURE CHANGE					Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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[→] H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

ltem	Qty -241	Qty -241B	Part Number	Description
1	X,		D212-664-241	CROSSTUBE ASSEMBLY (205/212 HIGH AFT)
2		Х	D212-664-241B	CROSSTUBE ASSEMBLY (214 HIGH AFT)
3	1	1	D6006-129	CROSSTUBE
4	2	2	D2940-1	SUPPORT
5	4	4	D3595-063-530	RUBBER CUSHION
66	4	4	MS21920-28	CLAMP (OR MS21920-30)
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100 TYPE II. CLASS 2 ADHESIVE)

GENERAL NOTES:

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1) MATERIAL: MANUFACTURED FROM D6006-129 FINISHED LENGTH = 124.362±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

4) UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX.

IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.

WEIGHT: D212-664-241 = 44.2 lbs (PER IIN-D212-664)

D212-664-241B = 44.2 lbs (PER IIN-D212-664)

PART IS SYMMETRIC ABOUT CENTERLINE.

RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 5 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-28 CLAMPS (OR -30) WITH D3595-063-530 RUBBER CUSHIONS TO SECURE THE D2940-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY **RETURN TO ENGINEERING** UNCONTROLLED COPY SUBJECT TO AMENDMENT

WITHOUT NOTICE WORK ORDER MC 11.0926 600 #11-614

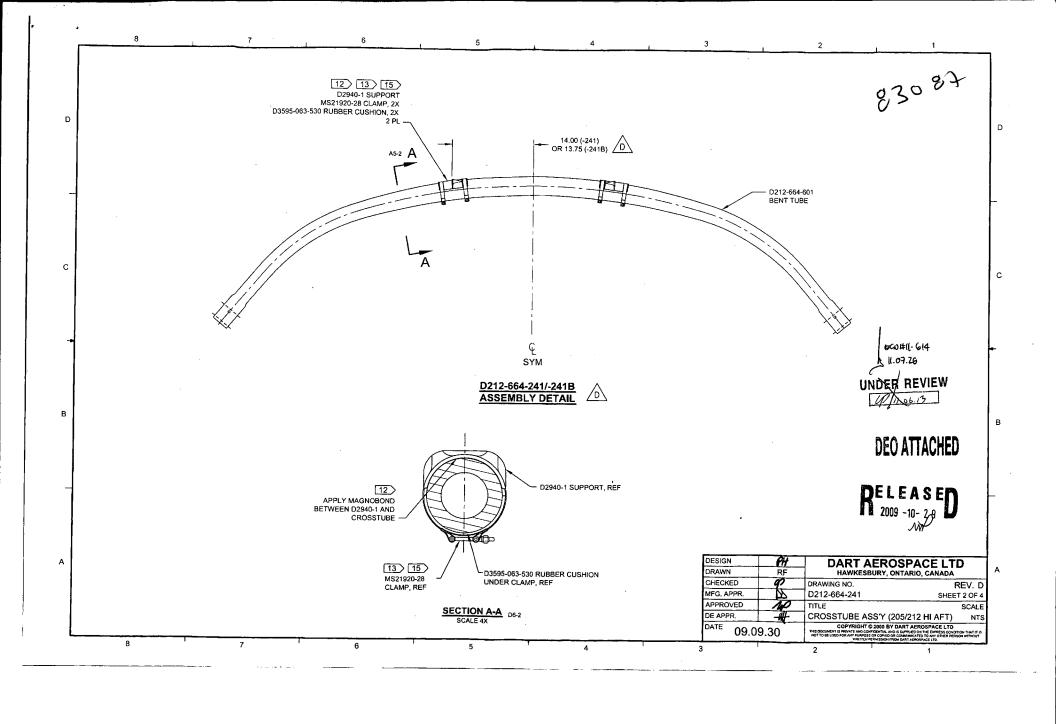
12/04/13 UNDER REVIEW

REFORMAT/REVISE GENERAL NOTES/PART LIST: 09.09.30 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS; ADD -241B (ZN D4-2, B4-2); REMOVED REF & ADD TOLERANCES (ZN D8-3 & C4-3, C6-3 & A8-3); RELOCATED FLAG #6 PER PAR 08-046 (ZN A5-3); MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4 REMOVE -1009 ABRASION STRIP; ADD MAGNOBOND 07.03.08 6398, CUSHION, REVERSE CLAMPS ADD HOLES FOR COMPATABILITY WITH BHT/AA 05 02 04 SKIDTUBES Α NEW ISSUE 00.12.12 PH REV. DESCRIPTION DATE BY

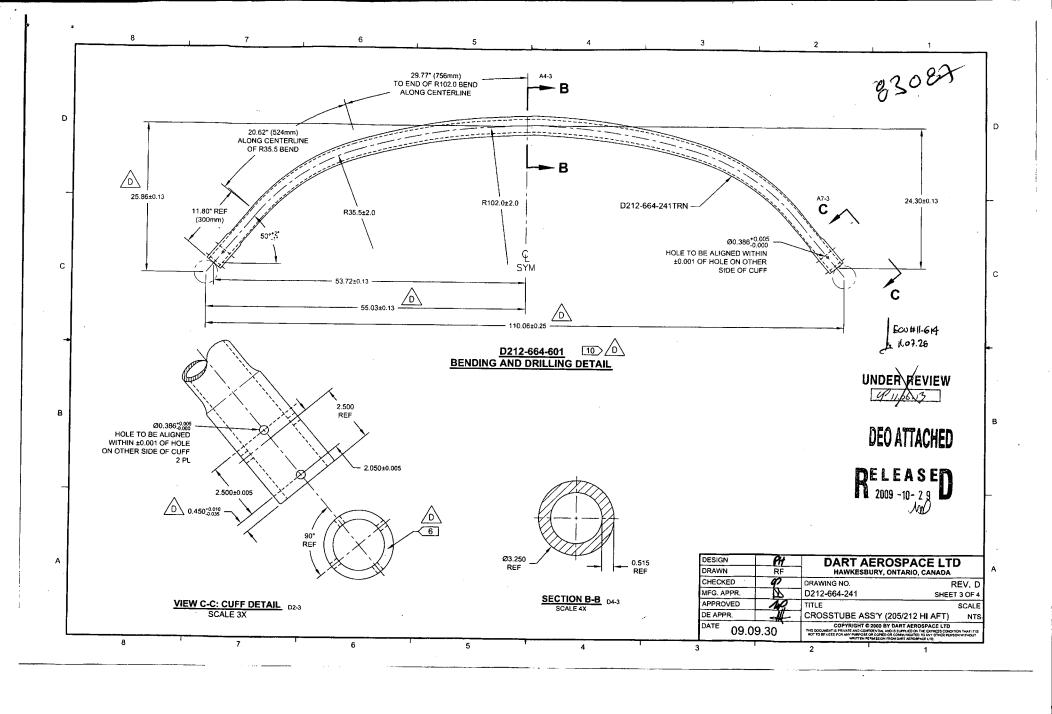
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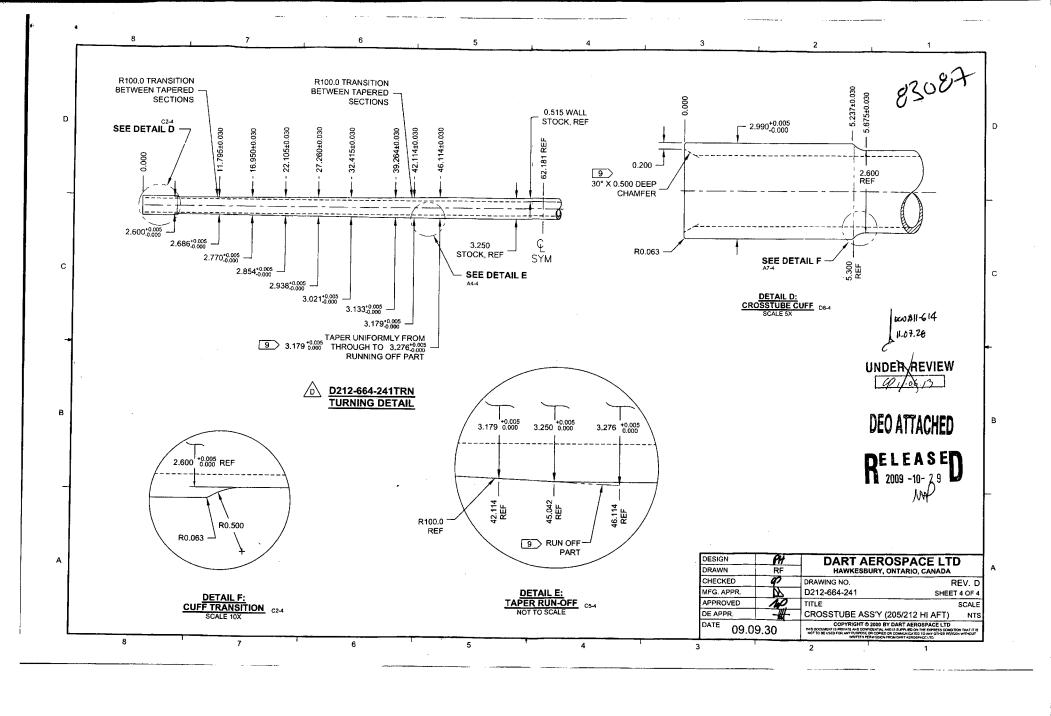


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	· · · · · ·			3	SHEET NO.	SCALE
D212-664-241	CROSSTUBE ASSY (205/	(212 HI AFT)	ENGINEERING ORDER	D212-664-241-D-1	SHEET 1 OF,2	. NTS
DRAWN	CHECKED	(N)	MFG. APPR.	APPROVED MP	DE APPR.	
DATE 11.04	.07 DATE	11.04.11	DATE /1.04.12	DATE 11/04/12	DATE 11.04.12	

PURPOSE:

ADD AN INSPECTION WINDOW TO UNDERSIDE OF CROSSTUBE.

CHANGE:

NOTES 2 OF SHEET 1 IS AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

PAINT OUTSIDE PER DART QSI 005 4.2

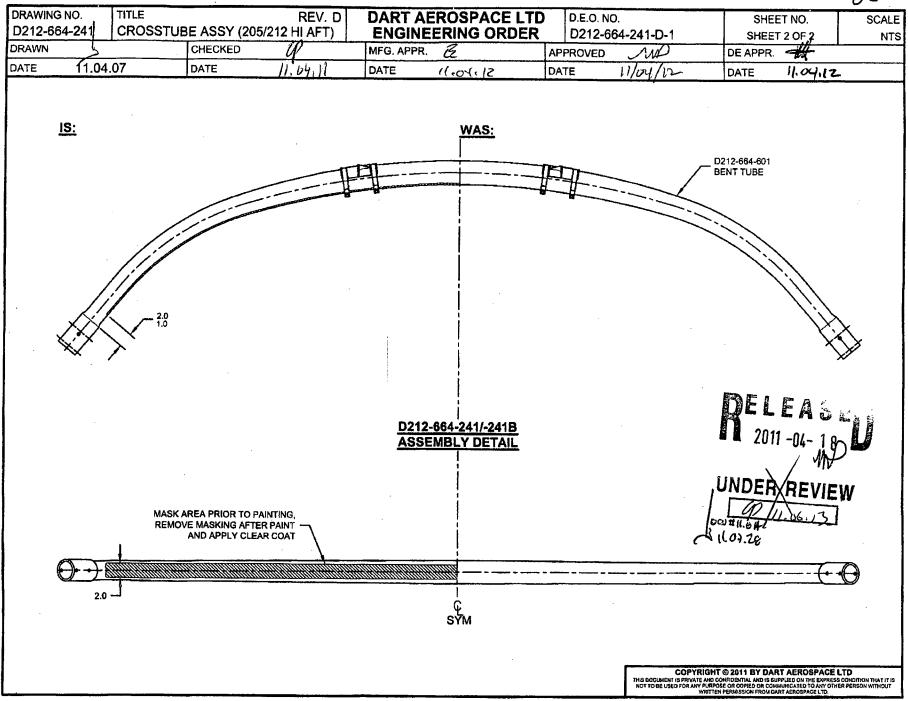
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DRAWING NO.	TITLE REV.	D DART AEROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
D212-664-241	CROSSTUBE ASS'Y (205/212 HI AFT	ENGINEERING ORDER	D212-664-241-D-2	SHEET 1 OF 1	NTS
DRAWN 97	CHECKED ASS	MFG. APPR.	APPROVED AND	DE APPR.	
DATE 11.07	15 DATE 11.07.20	DATE 17.07.21	DATE 11/07/21	DATE 11-07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

CHANGE:

IS:

item	Qty -241	Qty -241B	Part Number	Description
7	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

			L	
7	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
l				ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
	<u>i</u>		<u> </u>	TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS

- 12) TO INSTALL D2940-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2940-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2940-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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WITHOUT PERSONS FROM DART AEROSPACE LTD.

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STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector		
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DART SERVICE INSTRUCTION

TO AMEND INSTRUCTIONS FOR CONTINUOUS AIRWORTHINESS ICA-D212-664 Rev. 6 OR LATER

REF. CANADIAN STC: SH01-9 REF. FAA STC: SR01298NY REF. EASA STC: EASA.IM.R.S.01304

PURPOSE:

The supports on the following crosstubes are now installed using Proseal instead of Magnobond:

D212-664-101/-101B @ CHG 005 D412-664-105 @ CHG 002 D212-664-201/-201B @ CHG 005 D212-664-207/-207B @ CHG 002

D212-664-107/-107B @ CHG 002

CHANGE:

For the crosstubes listed above, section 32.4 of ICA-D212-664 is amended as follows. Use Figure 1 of this service instruction and Figures 32-2 to 32-9 of ICA-D212-664 for further reference. For crosstubes of an earlier change number, it is recommended that if the supports are removed, the supports should be reinstalled using the procedure listed below.

32.4 SUPPORT INSTALLATION

- 32.4.1 Locate the area on the crosstube for installation of support (see Figure 1 of this service instruction). For D212-664-101/-107/-201/-207 and D412-664-105 crosstubes, the outward face of the support tabs should be 14.0" (355mm) from the crosstube center for 204/205/210/412/UH-1 aircraft. For installation on 214B/B-1 aircraft, the outward face of the support tabs should be 13.75" (349mm). Ensure paint finish of crosstube is intact; touch up as required per Chapter 5 (5.3.9) of ICA-D212-664.
- 32.4.2 If present, remove any paint/primer on bottom of supports. Abrade mating surfaces of support and crosstube with 400-grit sandpaper. Saturate a clean cloth with MEK or 4105S Wash'n'Wipe Degreaser or equivalent and wipe until there is no residue.
- 32.4.3 Ensure a layer of 3M Scotch-Weld 2216 B/A Epoxy Adhesive is on the bottom of the support. If required, either apply or touch-up support to have a 0.03" to 0.05" thick layer of adhesive over the entire mating surface. Allow supports to cure for 24 hours.
- 32.4.4 Abrade mating surfaces of support (after cure) and crosstube with 180-grit sandpaper. Saturate a clean cloth with MEK or 4105S Wash'n'Wipe Degreaser or equivalent and wipe until there is no residue.
- 32.4.5 Apply a 0.04" to 0.07" thick layer of Proseal 890 Class B or AMS-S-8802 Class B sealant underneath applicable support and install support as shown in Figure 1 of this service instruction.
- 32.4.6 Install the clamps opposite to crosstube support as shown in section A-A of Figure 1. Install rubber cushions underneath each clamp around the bottom circumference of the crosstube up to the crosstube centerline. Torque clamps 80-100 in 1b (9.0-11.3 Nm). It is acceptable to use smaller or larger sized MS21920-XX clamps than those listed in ICA-D212-664, ensure that after torquing the clamps per this instruction, the nuts are in safety but not bottomed out
- 32.4.7 Prior to installing crosstube on aircraft, allow supports to cure for 72 hours and recheck torque on clamps.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:
D. SHEPHERD (DE # 02)

DATE:
11.07.20
CERT. NO.:
SH01-9
ISSUE NO.:
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Dart Aerospace

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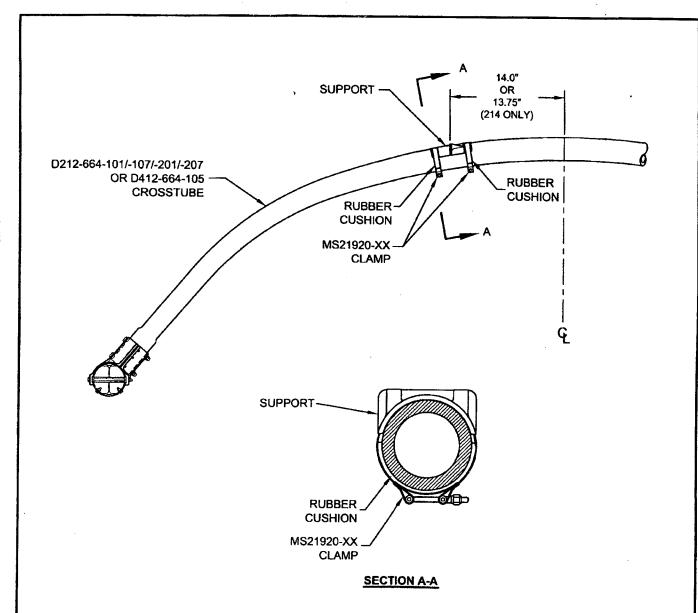
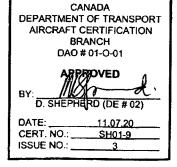


FIGURE 1: SUPPORT INSTALLATION



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